

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-77339
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Federal 12-20-8-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-33493
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/SW (Lot #4) 1876' FSL 656' FWL 572486X 40.10135 At proposed prod. zone 4439142Y - 110.14959		10. Field and Pool, or Exploratory Monument Bore Undersignate d
14. Distance in miles and direction from nearest town or post office* Approximatley 8.8 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area NW/SW Sec. 20, T8S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 515' f/lse, NA' f/unit	16. No. of Acres in lease 557.08	17. Spacing Unit dedicated to this well 40 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1250'	19. Proposed Depth 6505'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5540' GL	22. Approximate date work will start* 4th Quarter 2008	23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).</li> </ul> | <ul style="list-style-type: none"> <li>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).</li> <li>5. Operator certification.</li> <li>6. Such other site specific information and/or plans as may be required by the authorized officer.</li> </ul> |
|--|---|

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 5/28/08
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 06-09-08
Title Office	ENVIRONMENTAL MANAGER	

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

**Federal Approval of this  
Action is Necessary**

**RECEIVED**

**JUN 04 2008**

**DIV. OF OIL, GAS & MINING**

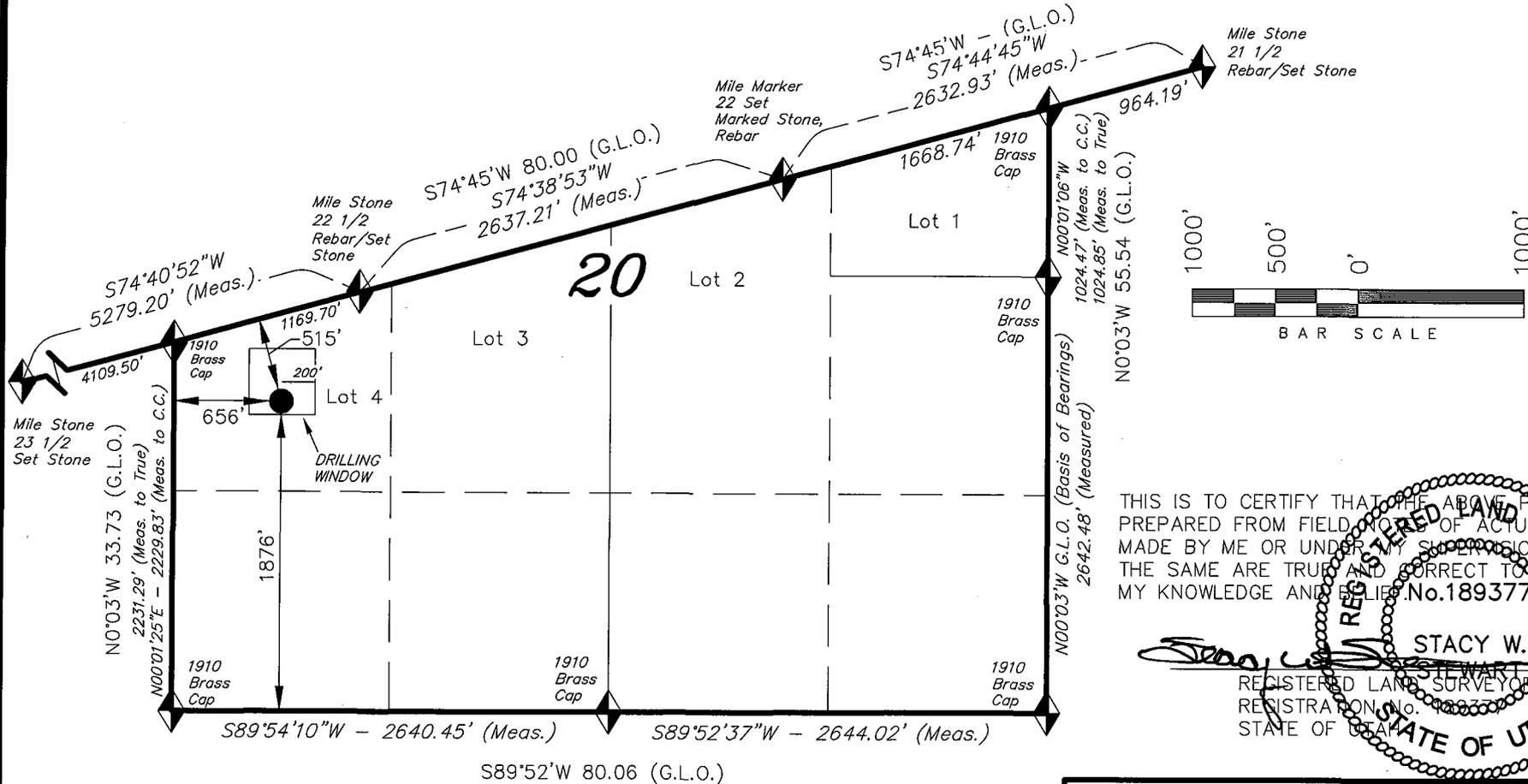
**T8S, R16E, S.L.B.&M.**

**NEWFIELD PRODUCTION COMPANY**

**WELL LOCATION:  
FENCELINE 12-20-8-16**

ELEV. UNGRADED GROUND = 5539.6'

WELL LOCATION, FENCELINE 12-20-8-16,  
LOCATED AS SHOWN IN THE NW 1/4 SW  
1/4 (LOT 4) OF SECTION 20, T8S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377

**REGISTERED LAND SURVEYOR**  
 STACY W. STEWART  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 189377  
 STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 11-27-07	SURVEYED BY: C.M.
DATE DRAWN: 12-19-07	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SW)

**FENCELINE 12-20-8-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 06' 04.74"  
 LONGITUDE = 110° 09' 01.33"

NEWFIELD PRODUCTION COMPANY  
FEDERAL 12-20-8-16  
NW/SW (LOT #4) SECTION 20, T8S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' – 2870'
Green River	2870'
Wasatch	6505'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 2870' – 6505' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
FEDERAL 12-20-8-16  
NW/SW (LOT #4) SECTION 20, T8S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal 12-20-8-16 located in the NW 1/4 SW 1/4 Section 20, T8S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southwesterly - 6.8 miles ± to its junction with the beginning of the proposed access road to the west; proceed westerly along the proposed access road - 3120' ± to the proposed well location.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

All permanent surface equipment will be painted Carlsbad Canyon.  
Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District  
Water Right: 43-10136

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #08-102, 5/9/08. Paleontological Resource Survey prepared by, Wade E. Miller, 4/30/08. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 3120' of disturbed area be granted in Lease UTU-77339 to allow for construction of the planned access road. **Refer to Topographic Map "B"**. A permanent width of 30' and a running surface of 18' is proposed for the planned access road. The construction phase of the planned access road will last approximately (5) days. The planned access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests 3120' of disturbed area be granted in Lease UTU-77339 to allow for construction of the proposed surface gas lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line and 30' wide upon completion of the proposed gas lines. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

**Mountain Plover:** If new construction or surface disturbing activities are scheduled to occur between May 15 and June 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be conducted in accordance with the survey protocols outlined in the most recent USFWS Survey Protocol. Surveys must be completed prior to initiating new construction or surface disturbing activities. No new construction or surface disturbing activities will be allowed between May 15 and June 15 within a 0.5 mile radius of any documented mountain plover nest site.

**Burrowing Owl:** Due to the proximity of the location to active prairie dog towns, there is the potential to encounter nesting burrowing owls between April 1 and August 15. If new construction or surface disturbing activities are scheduled between April 1 and August 15, pre-construction surveys will be conducted to detect the presence of nesting burrowing owls within 0.5 mile of any new construction or surface disturbing activity (see Vernal BLM Field Office Protocol). No new construction or surface disturbing activities will be allowed between April 1 and August 15 within a 0.5 mile radius of any active burrowing owl nest.

**Reserve Pit Liner**

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Squirrell Tail	<i>Elymus Elymoides</i>	6 lbs/acre
Siberian Wheatgrass	<i>Agropyron Fragile</i>	2 lbs/acre
Gardner Saltbush	<i>Atriplex Gardneri</i>	1 lbs/acre
Shadscale	<i>Atriplex Confertifolia</i>	1 lbs/acre
Fourwing Saltbush	<i>Atriplex Canescens</i>	1 lbs/acre
Scarlet Globemallow	<i>Sphaeralcea Conccinea</i>	0.20 lbs/acre
Forage Kochia	<i>Kochia Prostrata</i>	0.20 lbs/acre

**Details of the On-Site Inspection**

The proposed Federal #12-20-8-16 was on-sited on 4/16/08. The following were present; Dave Allred (Newfield Production), Kevan Stevens (Newfield Production ), Michael Cutler (Bureau of Land Management), Brandon McDonald (Bureau of Land Management )and James Herford (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

**LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

Name: Dave Allred  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

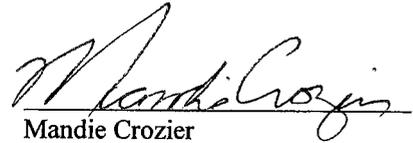
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #12-20-8-16 NW/SW Section 20, Township 8S, Range 16E: Lease UTU-77339 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

5/28/08

Date

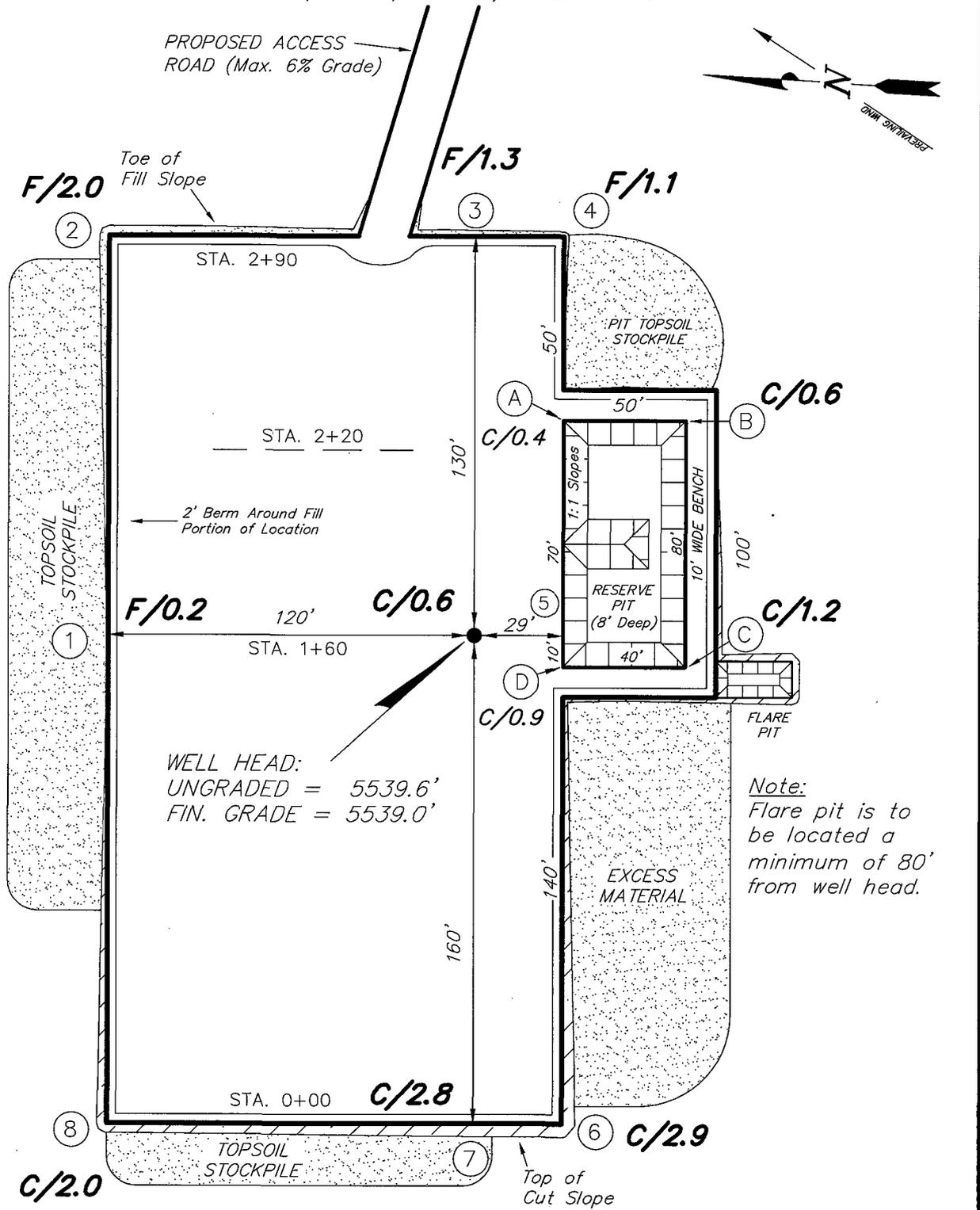


Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

FENCELINE 12-20-8-16

Section 20, T8S, R16E, S.L.B.&M.



*Note:*  
Flare pit is to be located a minimum of 80' from well head.

**REFERENCE POINTS**

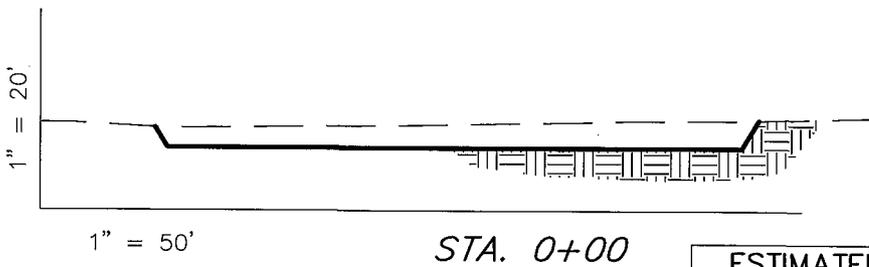
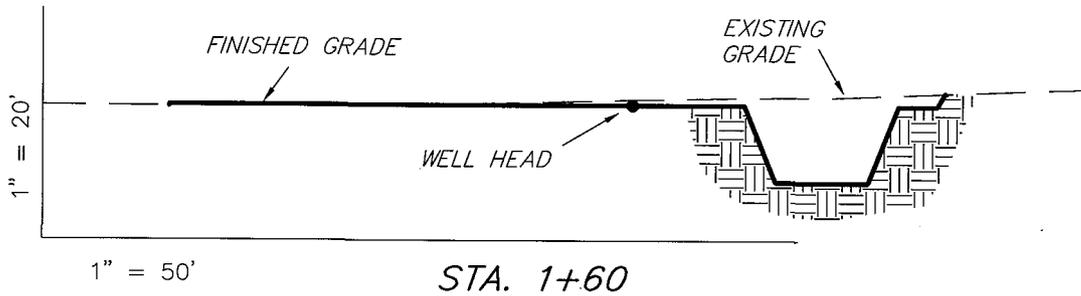
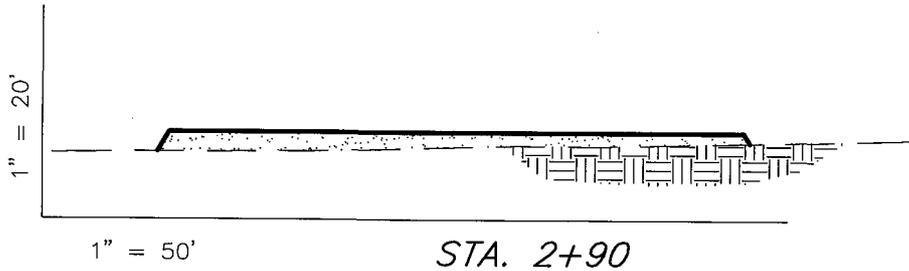
210' WESTERLY	= 5542.4'
260' WESTERLY	= 5543.4'
170' NORTHERLY	= 5539.0'
220' NORTHERLY	= 5539.1'

SURVEYED BY: C.M.	DATE SURVEYED: 11-27-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-19-07
SCALE: 1" = 50'	REVISED:

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS FENCELINE 12-20-8-16



NOTE:  
UNLESS OTHERWISE  
NOTED ALL CUT/FILL  
SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	890	890	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	1,530	890	940	640

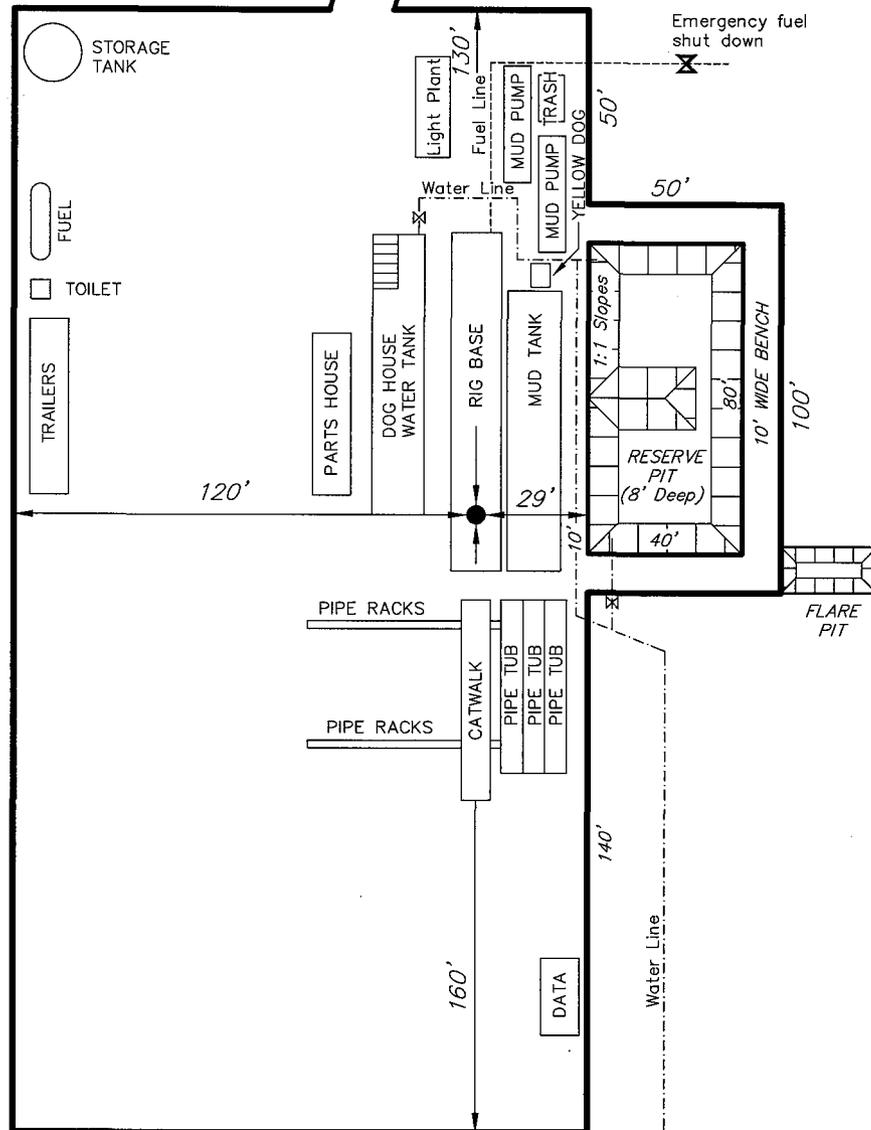
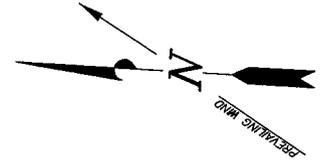
SURVEYED BY: C.M.	DATE SURVEYED: 11-27-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-19-07
SCALE: 1" = 50'	REVISED:

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT FENCELINE 12-20-8-16

PROPOSED ACCESS ROAD (Max. 6% Grade)



SURVEYED BY: C.M.	DATE SURVEYED: 11-27-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-19-07
SCALE: 1" = 50'	REVISED:

**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

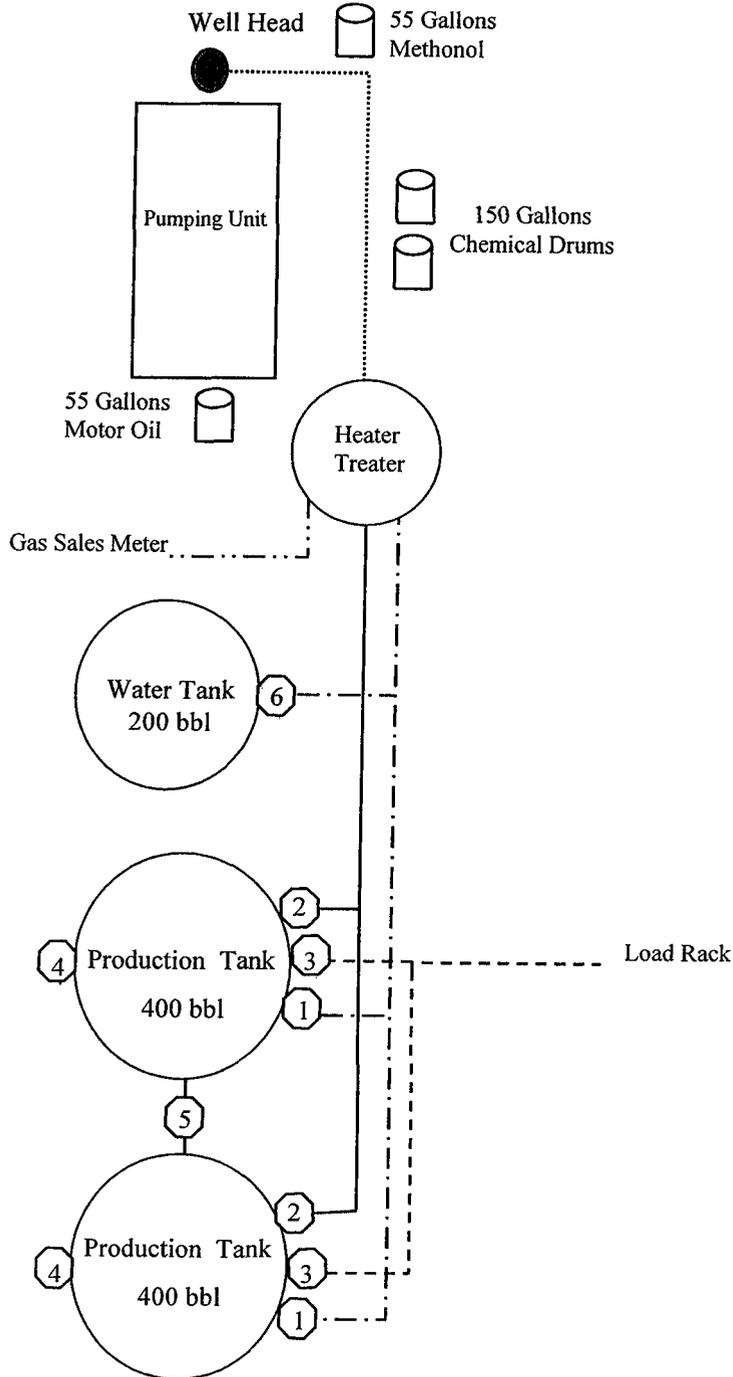
# Howfield Production Company Proposed Site Facility Diagram

Federal 12-20-8-16

NW/SW (Lot #4) Sec. 20, T8S, R16E

Duchesne County, Utah

UTU-77339



## Legend

Emulsion Line	.....
Load Rack	- - - - -
Water Line	- . - . - .
Gas Sales	- . - . - .
Oil Line	—————

### Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

### Sales Phase:

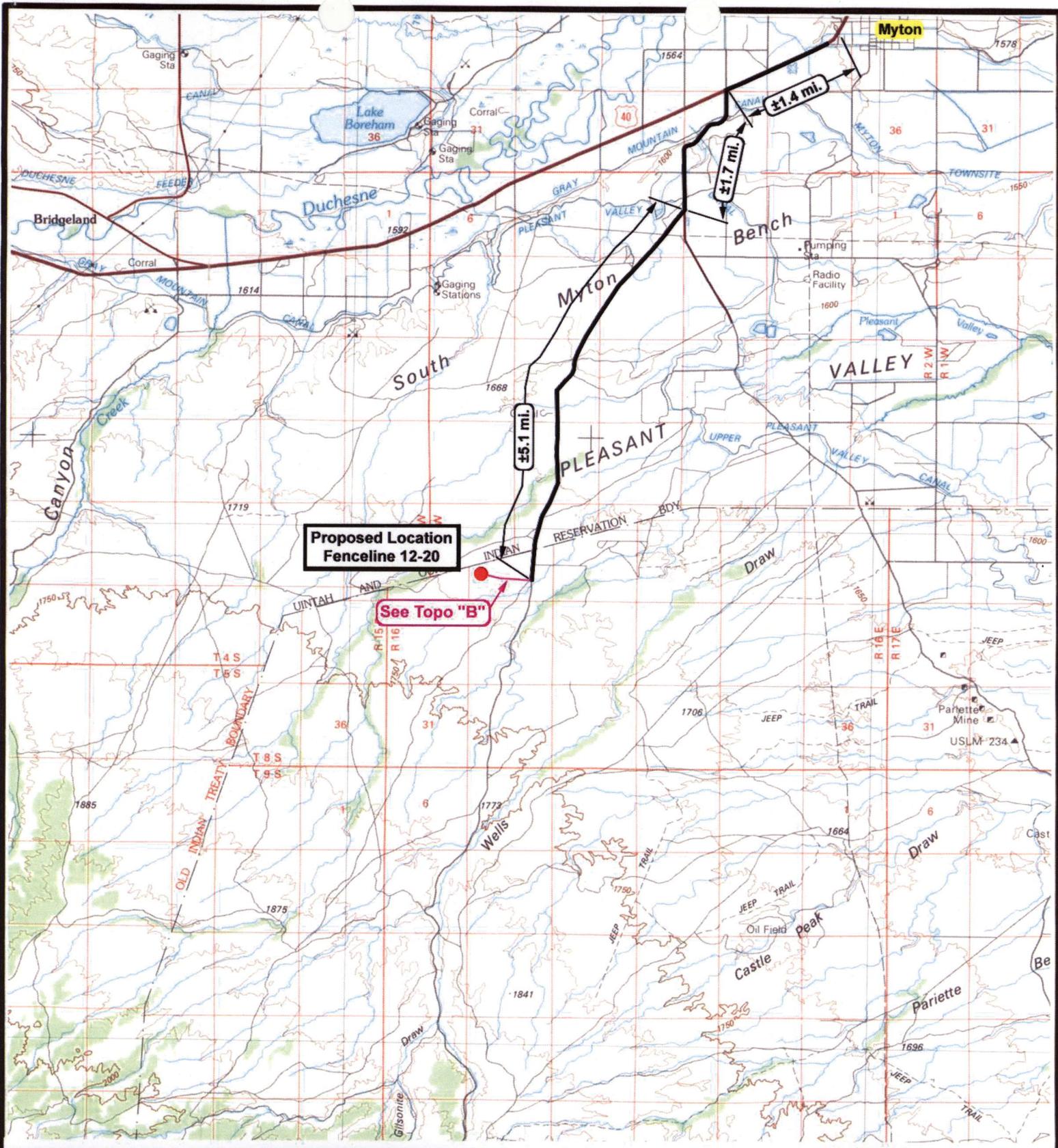
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

### Draining Phase:

- 1) Valves 1 and 6 open

Diked Section





**Proposed Location  
Fenceline 12-20**

**See Topo "B"**



**NEWFIELD**  
Exploration Company

**Fenceline 12-20-8-16  
SEC. 20, T8S, R16E, S.L.B.&M.**



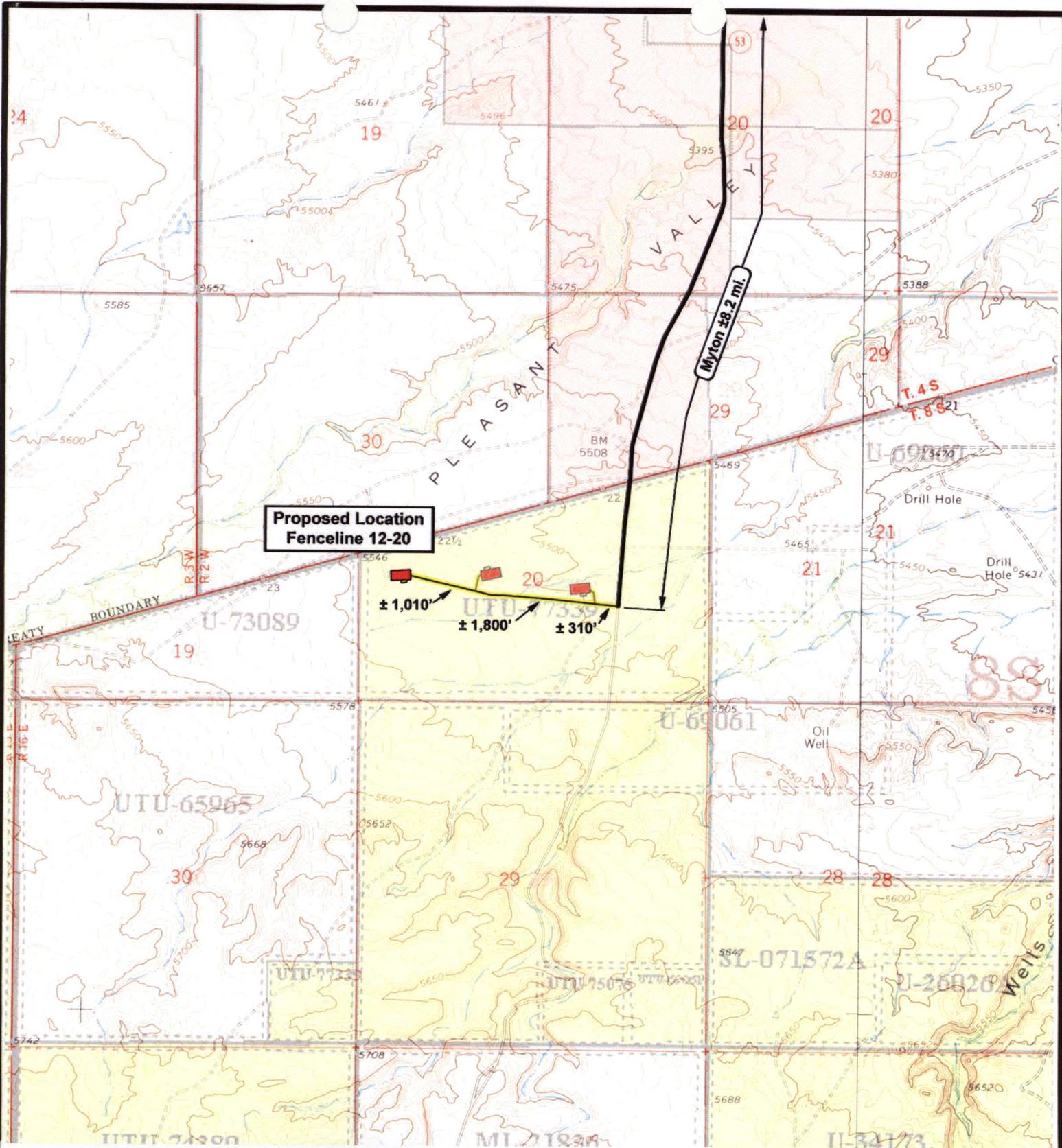
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: mw  
DATE: 12-27-2007

**Legend**

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP  
**"A"**



**NEWFIELD**  
Exploration Company

**Fenceline 12-20-8-16**  
**SEC. 20, T8S, R16E, S.L.B.&M.**



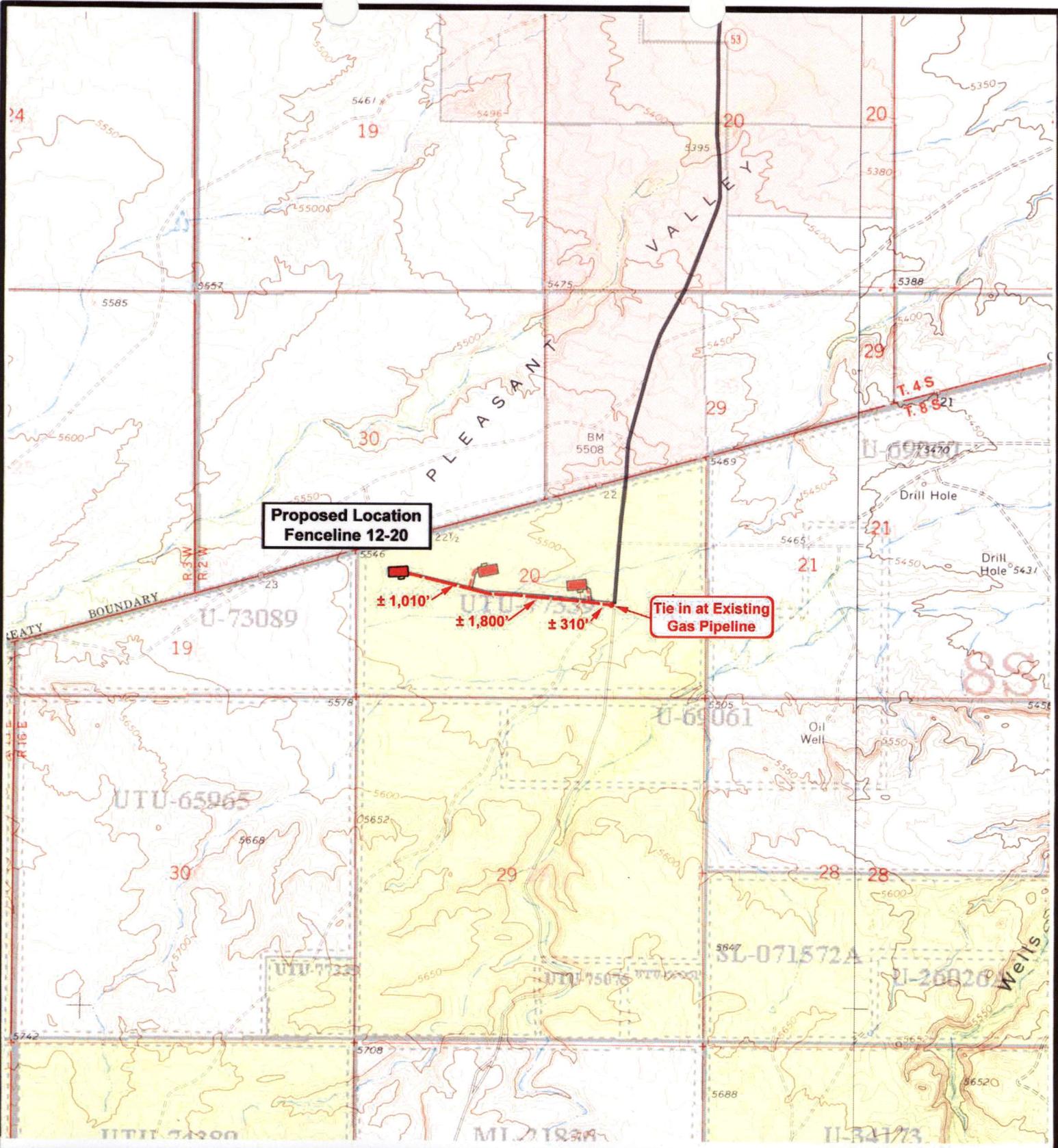
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 12-27-2007

**Legend**

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP  
**"B"**



 **NEWFIELD**  
Exploration Company

**Fenceline 12-20-8-16**  
**SEC. 20, T8S, R16E, S.L.B.&M.**



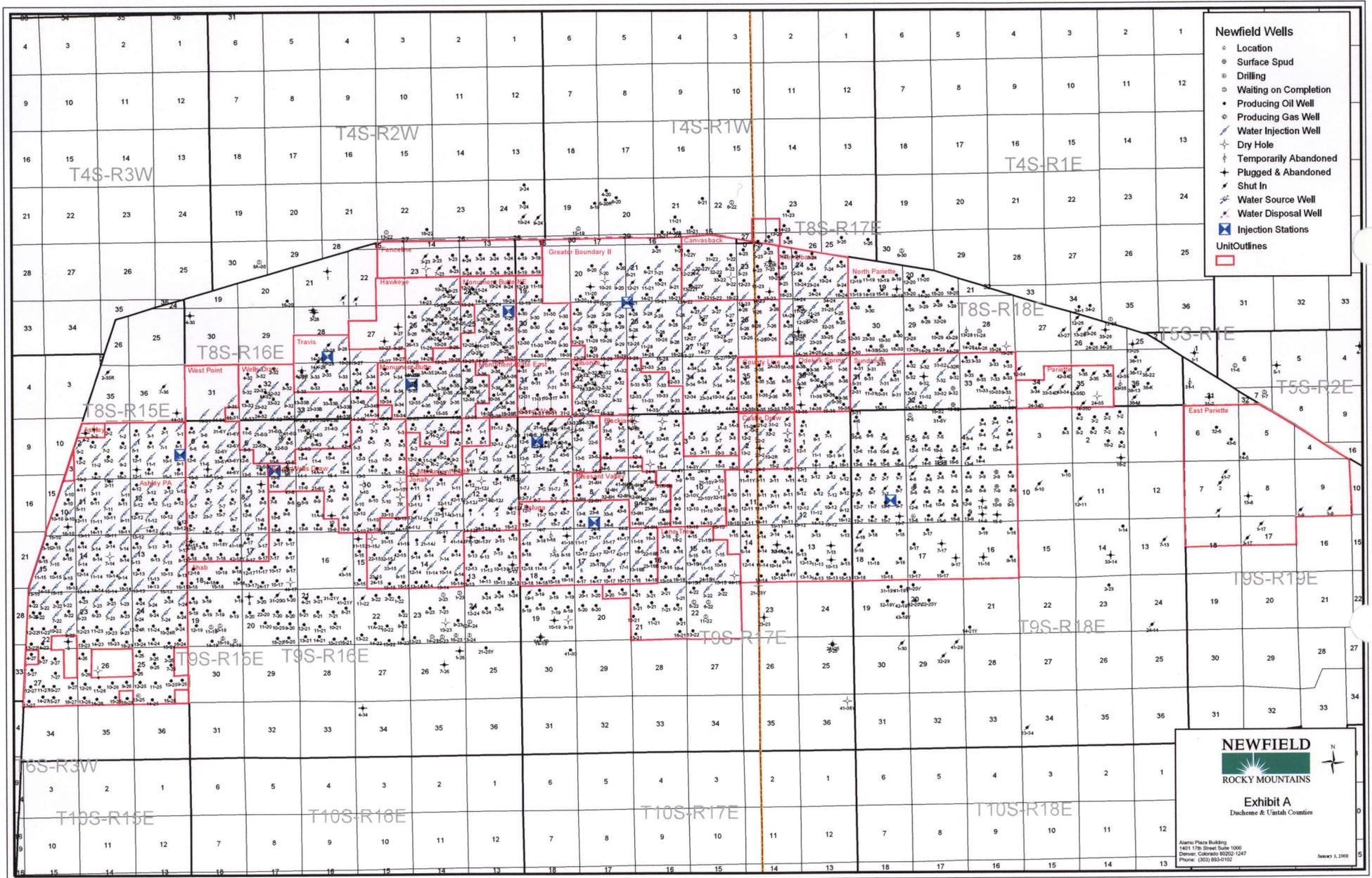
  
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 12-27-2007

**Legend**

-  Roads
-  Proposed Gas Line

TOPOGRAPHIC MAP  
**"C"**



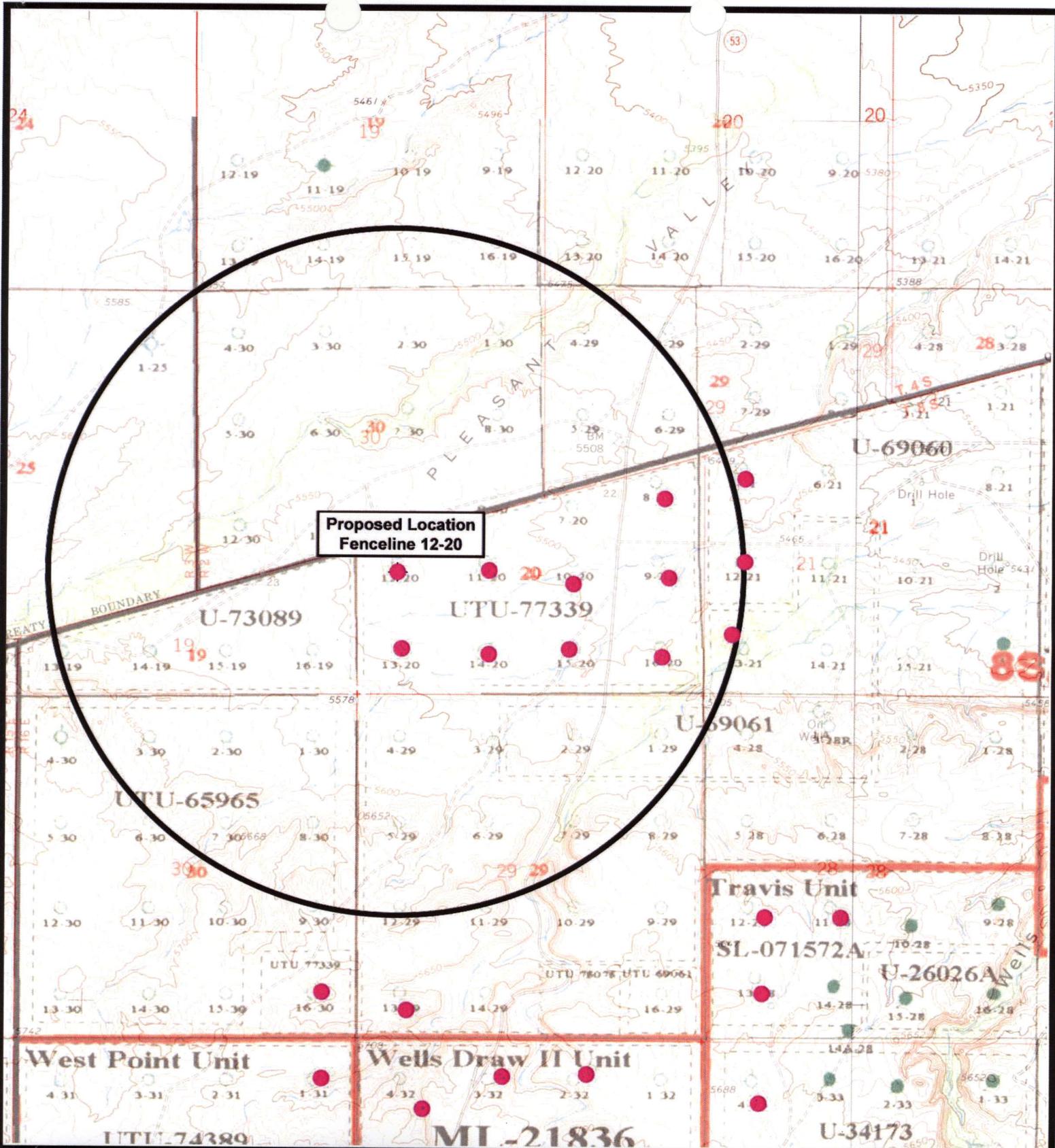
- Newfield Wells**
- Location
  - Surface Spud
  - Drilling
  - Waiting on Completion
  - Producing Oil Well
  - Producing Gas Well
  - ⚡ Water Injection Well
  - ⊥ Dry Hole
  - ⊕ Temporarily Abandoned
  - ⊕ Plugged & Abandoned
  - ⊕ Shut In
  - ⚡ Water Source Well
  - ⚡ Water Disposal Well
  - ⊕ Injection Stations
  - Unit Outlines

**NEWFIELD**  
 ROCKY MOUNTAINS

Exhibit A  
 Duchesne & Uintah Counties

Alamo Plaza Building  
 1401 17th Street Suite 1000  
 Denver, Colorado 80202-7247  
 Phone: (303) 654-4102

January A, 2008



Proposed Location  
Fenceline 12-20

**NEWFIELD**  
Exploration Company

**Fenceline 12-20-8-16**  
**SEC. 20, T8S, R16E, S.L.B.&M.**



*Tri-State*  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 12-27-2007

**Legend**

- Location
- One-Mile Radius

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

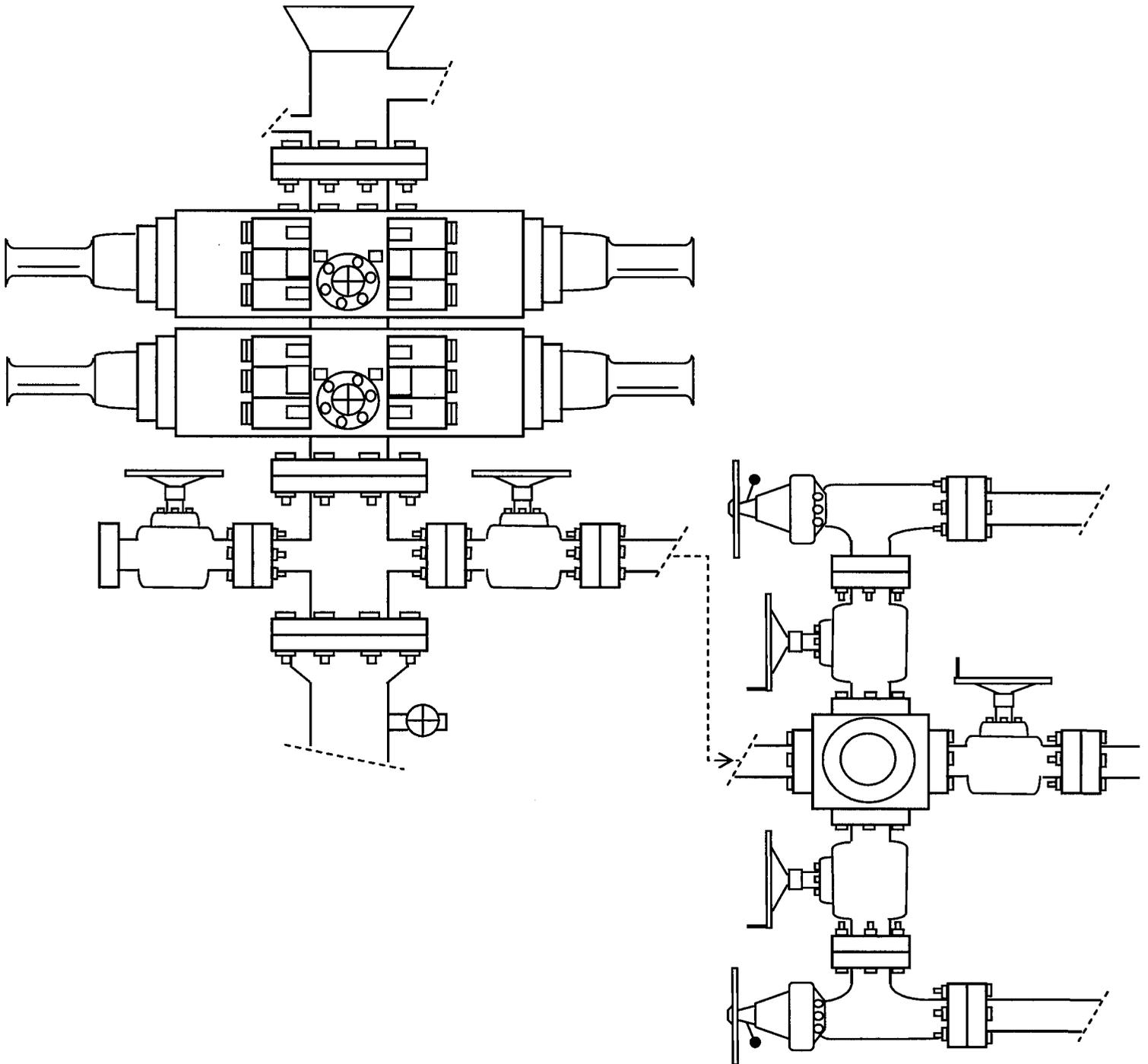


EXHIBIT C

Exhibit "D"

1 of 2

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S NINE 40 ACRE PARCELS:  
7-20, 8-20, 9-20, 10-20, 11-20, 12-20, 13-20, 14-20,  
AND 15-20 (T 8S, R 16E, SECTION 20)  
DUCHESNE COUNTY, UTAH

By:

Patricia Stavish

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company  
Rt. 3 Box 3630  
Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants, Inc.  
P.O. Box 219  
Moab, Utah 84532

MOAC Report No. 08-102

May 9, 2008

United States Department of Interior (FLMPA)  
Utah Permit No. 08-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-08-MQ-0337b

**NEWFIELD EXPLORATION COMPANY**

**PALEONTOLOGICAL SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE & UTAH COUNTIES, UTAH**

Section 21, T 8 S, R 16 E [Entire section excluding NE/NW (3-21) & NW/NW(4-21)];  
Section 20, T 8 S, R 16 E [SW/NE (7-20), SE/NE (8-20), NE/SE (9-20), NW/SE (10-20),  
NE/SW (11-20), NW/SW (12-20), SW/SW (13-20), SE/SW (14-20), & SW/SE (15-20);  
SE/SE, Section 32, T 8 S, R 18 E (16-32-8-18), NE/NE, Section 36, T 8 S, R 17 E (1-36-8-17),  
NE/NW & SW/NW, Section 18, T 9 S, R 19 E (3 & 5-18-9-19), and Proposed Water Injection  
Line at SE/SW, Section 1, T 9 S, R 15 E (14-1-9-15).

**REPORT OF SURVEY**

Prepared for:

**Newfield Exploration Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
April 30 & May 1, 2008

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 06/04/2008

API NO. ASSIGNED: 43-013-33993

WELL NAME: FEDERAL 12-20-8-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWSW 20 080S 160E  
 SURFACE: 1876 FSL 0656 FWL  
 BOTTOM: 1876 FSL 0656 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.10135 LONGITUDE: -110.1496  
 UTM SURF EASTINGS: 572486 NORTHINGS: 4439142  
 FIELD NAME: UNDESIGNATED ( 2 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-77339  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

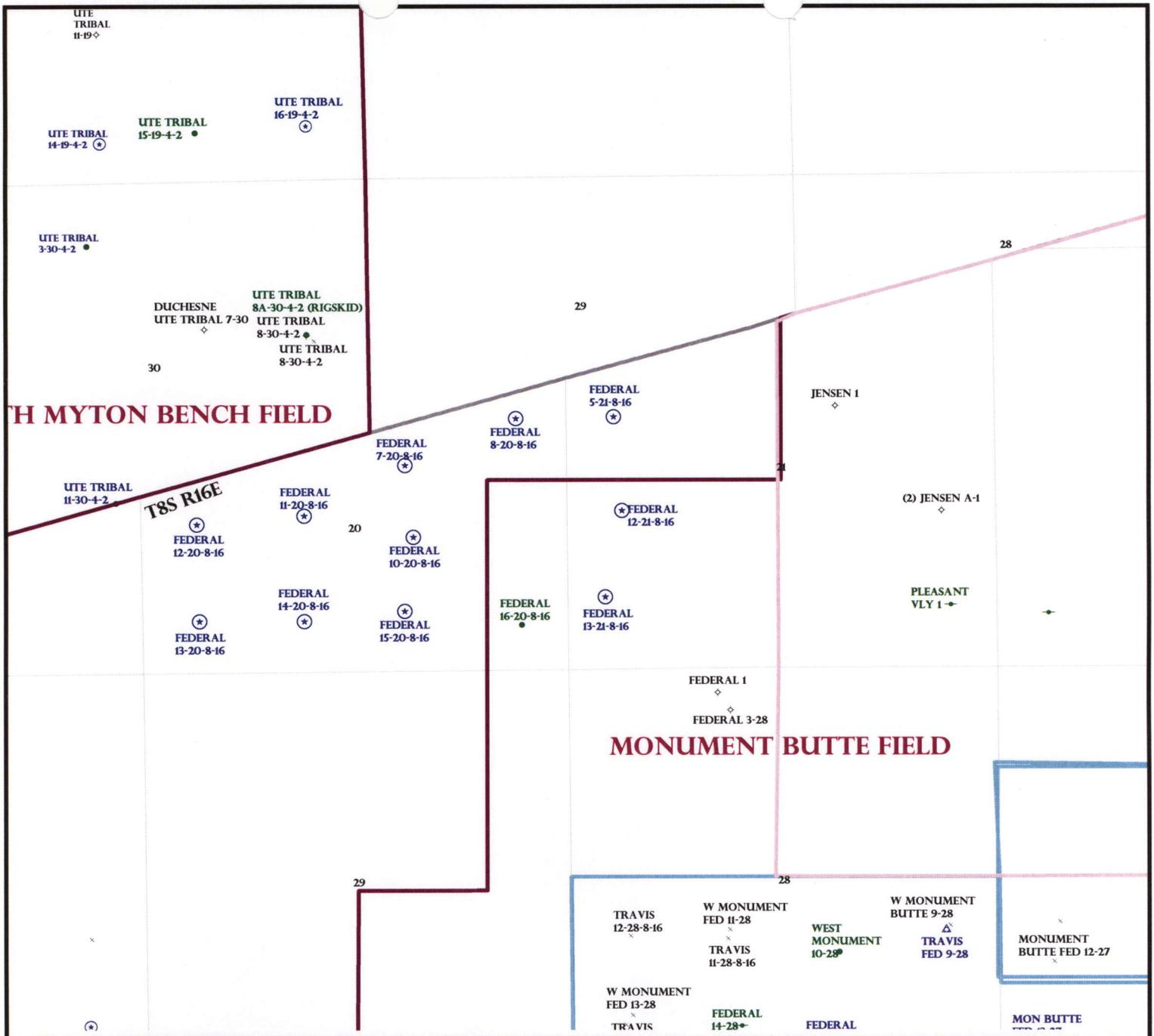
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WYB000493 )
- N Potash (Y/N)
- N Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-10136 )
- N RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Yes Fee Surf Agreement (Y/N)
- Yes Intent to Commingle (Y/N)

LOCATION AND SITING:

- \_\_\_\_\_ R649-2-3.
- Unit: \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- \_\_\_\_\_ R649-3-3. Exception
- \_\_\_\_\_ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- \_\_\_\_\_ R649-3-11. Directional Drill

COMMENTS: See Separate DW

STIPULATIONS: 1- Seismic Approval  
2- Seismic Strip



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 20 T.8S R. 16E

FIELD: UNDESIGNATED(002)

COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING

- Field Status**
- ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - PROPOSED
  - STORAGE
  - TERMINATED

- Unit Status**
- EXPLORATORY
  - GAS STORAGE
  - NF PP OIL
  - NF SECONDARY
  - PENDING
  - PI OIL
  - PP GAS
  - PP GEOTHERML
  - PP OIL
  - SECONDARY
  - TERMINATED

- Wells Status**
- GAS INJECTION
  - GAS STORAGE
  - LOCATION ABANDONED
  - NEW LOCATION
  - PLUGGED & ABANDONED
  - PRODUCING GAS
  - PRODUCING OIL
  - SHUT-IN GAS
  - SHUT-IN OIL
  - TEMP. ABANDONED
  - TEST WELL
  - WATER INJECTION
  - WATER SUPPLY
  - WATER DISPOSAL
  - DRILLING



PREPARED BY: DIANA MASON  
DATE: 04-JUNE-2008



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 9, 2008

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Federal 12-20-8-16 Well, 1876' FSL, 656' FWL, NW SW, Sec. 20, T. 8 South,  
R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33993.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal Office



**Operator:** Newfield Production Company  
**Well Name & Number** Federal 12-20-8-16  
**API Number:** 43-013-33993  
**Lease:** UTU-77339

**Location:** NW SW                      Sec. 20                      T. 8 South                      R. 16 East

### **Conditions of Approval**

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office      (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

RECEIVED  
VERNAL FIELD OFFICE

Form 3160-3  
(September 2001)

2008 JUN 4 PM 1 08

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
DEPT OF THE INTERIOR  
BUREAU OF LAND MGMT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-77339
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	8. Lease Name and Well No. Federal 12-20-8-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/SW (Lot #4) 1876' FSL 656' FWL At proposed prod. zone		9. API Well No. 43 013 33993
14. Distance in miles and direction from nearest town or post office* Approximatley 8.8 miles southwest of Myton, Utah		10. Field and Pool, or Exploratory Monument Butte
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 515' f/lse, NA' f/unit	16. No. of Acres in lease 557.08	11. Sec., T., R., M., or Blk. and Survey or Area NW/SW Sec. 20, T8S R16E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1250'	19. Proposed Depth 6505'	12. County or Parish Duchesne
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5540' GL	22. Approximate date work will start* 4th Quarter 2008	13. State UT
17. Spacing Unit dedicated to this well 40 Acres		
20. BLM/BIA Bond No. on file WYB000493		
23. Estimated duration Approximately seven (7) days from spud to rig release.		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 5/28/08
Title Regulatory Specialist		
Approved by (Signature) <i>John Kewala</i>	Name (Printed/Typed) John Kewala	Date SEP 17 2008
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED

RECEIVED

SEP 23 2008

DIV. OF OIL, GAS & MINING

005 3/17/08  
08PPO599A



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE**

**170 South 500 East**

**VERNAL, UT 84078**

**(435) 781-4400**



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company: Newfield Production Company**  
**Well No: Federal 12-20-8-16**  
**API No: 43-013-33993**

**Location: Lot 4, Sec 20, T8S, R16E**  
**Lease No: UTU-77339**  
**Agreement: N/A**

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

**Fax: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify NRS/Enviro Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS/Enviro Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings
BOP & Related Equipment Tests (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to initiating pressure tests
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**Specific Surface COAs**

**STIPULATIONS:**

- An active colony of prairie dogs and their burrows (burrowing owl habitat) were observed on and around the proposed site. With this occurrence there will be a timing restriction during project activity (construction and drilling) to minimize disturbance during Burrowing Owl nesting from April 1 – July 15.
- The proposed area contains Mountain plover habitat. With this occurrence there will be a timing restriction during project activity (construction and drilling) to minimize disturbance during Mountain plover nesting from May 1 – June 15.

**Lease Notices from RMP:**

- The lessee/operator is given notice the area has been identified as containing Golden eagle habitat. Modifications may be required in the Surface Use Plan to protect the Golden eagle and/or its habitat from surface disturbance activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

**Comments:**

If it is anticipated that construction or drilling will occur during the given timing restrictions for any wildlife, a BLM or qualified biologist shall be notified so surveys can be conducted. Depending upon the results of the surveys, permission to proceed may or may not be recommended or granted (depending on the species being surveyed and the condition of the habitat).

**Follow-up Actions and/or Recommendations:**

**Please be aware that this Special Status Species wildlife clearance is effective for 1 year from the date of the onsite date. Any proposals submitted after the date of this report (onsite) shall require additional surveys and clearances.**

**CONDITIONS OF APPROVAL:**

- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- All pipelines (surface and buried) will be laid within one 50' wide construction ROW, on one side of the road, and will reduce down to a 30' wide permanent ROW on lease.

- A temporary road ROW will not be granted. The road ROW will be 30 foot for construction and will reduce to an 18 foot running surface.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed. All roads will have an 18', crowned (2 to 3% minimum), running surface. All roads will have drainage ditches along both sides of road.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed immediately upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.
- Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim/Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the respreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.

Interim Reclamation:

- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded using a rangeland drill. Seeding depth as per AO, or seed distributor. If portions of the site are too steep (>40%), or rocky, that portion may be broadcast seeded. If broadcasting seed, the seed shall be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain. Seeding shall occur in the fall (August 1<sup>st</sup> until snow or ground is frozen) with the following seed mix:

Seed mix:

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirreltail grass	<i>Elymus elymoides</i>	5.0	¼ - ½"
Siberian wheatgrass	<i>Agropyron fragile</i>	3.0	½"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	½"
Four-wing saltbush	<i>Atriplex canescens</i>	0.50	½"
Gardner's saltbush	<i>Atriplex gardneri</i>	0.50	½"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.20	⅛ - ¼"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

Final reclamation:

- Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be recontoured to natural topography, topsoil shall be respread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim.
- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (see above). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding shall take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

## ***DOWNHOLE CONDITIONS OF APPROVAL***

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- Logging: Run Gamma Ray from TD to surface

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to [UT\\_VN\\_Welllogs@BLM.gov](mailto:UT_VN_Welllogs@BLM.gov). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be

filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Spud

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig  
Name/# NDSI NS # 1 Submitted By  
Ryan Crum  
Phone Number ( 435 ) 823-0268

Well Name/Number Federal 12-20-8-16

Qtr/Qtr NW/SW Section 20 Township 8s Range 16e

Lease Serial Number UTU-77339  
API Number 43-013-33993

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 11-1-08 8:00 AM  PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 11-1-08 4:00 AM   
PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test

Other

Date/Time \_\_\_\_\_ AM  PM

Remarks \_\_\_\_\_  
\_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

3a. Address    Route 3 Box 3630  
                   Myton, UT 84052

3b. Phone    (include are code)  
                   435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 1876' FSL 656' FWL  
 NWSW Section 20 T8S R16E

5. Lease Serial No.  
 USA UTU-77339

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.  
 FEDERAL 12-20-8-16

9. API Well No.  
 4301333993

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 11/21/08 MIRU Patterson # 155. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 290'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6465'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 159 jt's of 5.5 J-55, 15.5# csgn. Set @ 6458.45KB. Cement with 320 sks cement mixed @ 11.0 ppg & 3.43 yld. The 475 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 21 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 105,000 #'s tension. Release rig @ 8:00pm on 11/27/08.

RECEIVED

DEC 04 2008

DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct (Printed/ Typed) Jav Burton	Title Drilling Foreman
Signature 	Date 11/28/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by .....	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

**NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT**

**5 1/2" CASING SET @ 6458.45**

LAST CASING: 8-5/8" SET @ \_\_\_\_\_  
 DATUM (KB) 12  
 DATUM TO CUT OFF CASING 12  
 DATUM TO BRADENHEAD FLANGE 12  
 DRILLER TD \_\_\_\_\_ LOGGER TD \_\_\_\_\_  
 HOLE SIZE 7-7/8" TOP FLOAT COLLAR @ 6417.51  
 TOP SHORT JT @ 4378.59

OPERATOR: Newfield Production Company  
 WELL: Fed. 12-20-8-16  
 FIELD/PROSPECT: Monument Butte  
 CONTRACTOR & RIG #: Patterson 155

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
1		Landing Jt	15.5#	J-55	8rd	A	14
159	5 1/2"	LT&C CASING	15.5#	J-55	8rd	A	6405.51
1	5 1/2"	FLOAT COLLAR	-	-	-	A	0.6
1	5 1/2"	LT&C CASING	15.5#	J-55	8rd	A	39.69
1	5 1/2"	GUIDE SHOE					0.65

CASING INVENTORY BAL.	FEET	JTS
TOTAL LENGTH OF STRING	6460.45	160
LESS NON CSG. ITEMS	15.25	-
PLUS FULL JTS. LEFT OUT	453.24	12
TOTAL	6898.44	172
TOTAL CSG. DEL. (W/O THRDS)	6898.44	172

TOTAL LENGTH OF STRING 6460.45  
 (-) LANDING JT 14  
 (-) AMOUNT CUTOFF 0  
 (+) KB ELEVATION 12  
**CASING SET DEPTH 6458.45**

COMPARE (SHOULD BE EQUAL)

CEMENT DATA		TIME	DATE
BEGIN RUN CSG.		7:00am	11/27/2008
CSG. IN HOLE		11:30am	11/27/2008
BEGIN CIRC		12:00am	11/27/2008
BEGIN PUMP CMT		1:36pm	11/27/2008
BEGIN DSPL. CMT		2:48pm	11/27/2008
PLUG DOWN		3:12pm	11/27/2008

GOOD CIRC THRU JOB: yes  
 Bbls CMT CIRC TO SURFACE: 22  
 RECIPROCATED PIPE: No  
 DID BACK PRES. VALVE HOLD ? yes  
 BUMPED PLUG TO: 2100 PSI

CEMENT USED		
CEMENT COMPANY:	BJ	
STAGE	# SX	CEMENT TYPE & ADDITIVES
1 (lead)	320	Premium Lite II cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5 lbs/sack Cello Flake + 2 lbs/sack Kol Seal + 0.002 gps FP-6L + 10% bwoc Bentonite + 0.5% bwoc Sodium Metasilicate + 5 lbs/sack CSE-2 + 204.7% Fresh Water
2 (tail)	475	(50:50) Poz (Fly Ash): Class G Cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5% bwoc EC-1 + 0.25 lbs/sack Cello Flake + 0.002 gps FP-6L + 2% bwoc Bentonite + 0.3% bwoc Sodium Metasilicate + 54.7% Fresh Water

**CENTRALIZER & SCRATCHER PLACEMENT (SHOW MAKE & SPACING)**  
 Centralizers - Middle first, top second & third. Then every third collar for a total of 20.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU-77369

6. If Indian, Allottee or Tribe Name  
NA

7. Unit or CA Agreement Name and No.  
FEDERAL

8. Lease Name and Well No.  
FEDERAL 12-20-8-16

9. AFI Well No.  
43-013-33993

10. Field and Pool or Exploratory  
MONUMENT BUTTE

11. Sec., T., R., M., on Block and  
Survey or Area  
SEC. 20, T8S, R16E

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
11/03/2008

15. Date T.D. Reached  
11/27/2008

16. Date Completed  
12/19/2008  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5540' GL 5552' KB

18. Total Depth: MD 6450'  
TVD

19. Plug Back T.D.: MD 6417'  
TVD

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit report)  
Directional Survey?  No  Yes (Submit copy)

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

3. Address  
1401 17TH ST. SUITE 1000 DENVER, CO 80202

3a. Phone No. (include area code)  
(435)646-3721

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface 1876' FSL & 656' FWL (NW/SW) SEC. 20, T8S, R16E  
At top prod. interval reported below  
At total depth 6450'

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#		342'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#		6458'		320 PRIMLITE		400'	
						475 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 6139'	TA @ 6010'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER			(CP1) (CP.5)see below	.49"	4	104
B) GREEN RIVER			(LODC) see below	.49"	4	120
C) GREEN RIVER			(A1) 5554-5560'	.49"	4	24
D) GREEN RIVER			(B1) 5346-5358'	.49"	4	48

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5976-6071'	Frac w/ 59921# of 20/40 snd 538 bbls fluid
5698-5750'	Frac w/ 80230# 20/40 snd 652 bbls fluid
5554-5560'	Frac w/ 26664# 20/40 snd 377 bbls fluid
5346-5358'	Frac w/ 21026 # 20/40 snd 360 bbls fluid

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/19/08	12/29/08	24	→	21	6495'	199			2-1/2" x 1-1/2" x 16 x 20' RHAC Rod Pump

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					PRODUCING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

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JAN 12 2009

\*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3987' 9214'
				GARDEN GULCH 2 POINT 3	4338' 4630'
				X MRKR Y MRKR	4886' 4919'
				DOUGALS CREEK MRK BI CARBONATE MRK	5039' 5296'
				B LIMESTON MRK CASTLE PEAK	5444' 5952'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	5374' 6465'

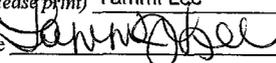
32. Additional remarks (include plugging procedure):

(CP1) 6065-6071, 6040-6050' (CP.5) 5976-5986'  
(LODC) 5738-5750', 5722-5728', 5698-5710'

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)     
  Geologic Report     
  DST Report     
  Directional Survey  
 Sundry Notice for plugging and cement verification     
  Core Analysis     
  Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Tammi Lee Title Production Clerk  
 Signature  Date 01/05/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-77339

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 1876' FSL 656' FWL COUNTY: DUCHESNE  
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWSW, 20, T8S, R16E STATE: UT

8. WELL NAME and NUMBER:  
FEDERAL 12-20-8-16

9. API NUMBER:  
4301333993

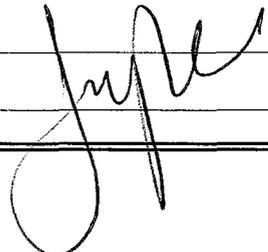
10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 01/14/2009	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
The above subject well was completed on 12/22/08, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk

SIGNATURE  DATE 01/14/2009

(This space for State use only)

**RECEIVED**  
**JAN 21 2009**  
DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

**FEDERAL 12-20-8-16**

**10/1/2008 To 2/28/2009**

**12/11/2008 Day: 1**

**Completion**

Rigless on 12/10/2008 - Instal 5K frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6389' & cement top @ 400'. Perforate stage #1, CP1 sds @ 6065-71', 6040-50' & CP.5 sds @ 5976-86' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 4 spf for total of 104 shots. 152 bbls EWTR. SIFN.

**12/17/2008 Day: 2**

**Completion**

Rigless on 12/16/2008 - Stage #1 CP2 sds. RU BJ Services. 0 psi on well. Frac CP2 sds w/ 59,921#'s of 20/40 sand in 538 bbls of Lightning 17 fluid. Broke @ 2523 psi. Treated w/ ave pressure of 1861 psi w/ ave rate of 22.3 BPM. ISIP 2136 psi. Leave pressure on well. 690 BWTR. Stage #2 LODC sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 2- 12', 6' perf guns. Set plug @ 5800'. Perforate LODC sds @ 5698-5710', 5722-28', 5738-50' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 120 shots. RU BJ Services. 1868 psi on well. Frac LODC sds w/ 80,230#'s of 20/40 sand in 652 bbls of Lightning 17 fluid. Broke @ 2438 psi. Treated w/ ave pressure of 1800 psi w/ ave rate of 22.4 BPM. ISIP 2184 psi. Leave pressure on well. 1342 BWTR. Stage #3 A1 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 6' perf gun. Set plug @ 5650'. Perforate A1 sds @ 5554-60' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 24 shots. RU BJ Services. 1876 psi on well. Frac A1 sds w/ 26,664#'s of 20/40 sand in 377 bbls of Lightning 17 fluid. Broke @ 3372 psi. Treated w/ ave pressure of 1950 psi w/ ave rate of 22.2 BPM. ISIP 1991 psi. Leave pressure on well. 1719 BWTR.

**12/18/2008 Day: 3**

**Completion**

NC #1 on 12/17/2008 - 6:30 AM MIRUSU, R/U H/Oiler & Thaw Out BOPS, R/D H/Oiler, OWU, R/D Frac BOPS, R/U Weatherford BOPS, Pick Up & TIH W/- Bit & Bit Sub, 174- Jts Tbg, R/U Rig Pmp, SWI, CSDFN @ 5:00 PM, 5:00 To 5:30 PM C/Trvl.

**12/19/2008 Day: 4**

**Completion**

NC #1 on 12/18/2008 - 6:30 AM OWU, R/U Nabors Power Swvl, Pick Up & RIH W/- Tbg To Plg @ 5390', Drill Up Plg In 25 Min, Swvl In Hole W/- Tbg To Plg @ 5650', Drill Up Plg In 30 Min, Swvl In Hole W/- Tbg To Plg @ 5800', Drill Up Plg In 28 Min, Hang Back Pwr Swvl, RIH W/- Tbg To Fill On PBSD @ 6141', R/U Swvl, Clean Out To PBSD @ 6417', Circ. Well Clean, Gain 20 Bbls Wtr, R/D Nabors Pwr Swvl, POOH W/- 4 Jts Tbg, R/U Sandline, Swab Well, Make 12 Swab Runs, Brought Back 170 Bbls Wtr, RIH W/- 4- Jts Tbg, Circ. Well Clean, Lost 30 Bbls Wtr POOH W/- 9 Jts Tbg, SWI, CSDFN @ 6:00 PM, 6:00 To 6:30 PM C/Trvl.

**12/23/2008 Day: 5**

**Completion**

NC #1 on 12/22/2008 - 6:30 AM OWU, POOH W/- 199- Jts Tbg, Bit & Bit Sub, Pick & TIH W/- NC, 2- Jts Tbg, SN, 2- Jts Tbg, TA, 195- Jts Tbg, Set TA W/- 15000 Lbs Tension, R/D Weatherford BOPS, R/U Wellhead, R/U Rig Pmp To Tbg, Flush W/- 60 Bbls Wtr, X - Over For Rods, Pick Up & Stroke Test W/- CDI 2 1/2 x 1 1/2 x 16 x 20' RHAC Rod Pmp, RIH W/- 6- 1 1/2" x 25' Wt Bars, 20- 3/4" Scrapered Rods, 116- 3/4" Plain Rods, 100- 7/8" Scrapered Rods (4 Per), 1- 8', 1- 4' 7/8" Pony Subs, 1 1/2" x 26' Polished Rod, R/U Pmp Unit, Hole

Standing Full, Test To 800 Psi Using Pmp Unit, Good Test, R/D NC# 1, CSDFN @ 6:00 PM,  
6:00 To 6:30 PM C/Trvl, PWOP @ 6:00 PM, 102" STL, 5 SPM. FINAL REPORT

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**Pertinent Files: Go to File List**



April 26, 2010

Mr. Brad Hill  
State of Utah, DOGM  
1594 West North Temple-Suite 1310  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Re-completion  
Federal 12-20-8-16  
Sec. 20, T8S, R16E  
API # 43-013-33993

Dear Mr. Hill:

The subject well had new perforations added. The well was then put back on production. Please find enclosed the sundry. If you have any questions please give me a call at 435-646-4874.

Sincerely,

  
Lucy Chavez-Naupoto  
Administrative Assistant

RECEIVED  
APR 28 2010  
DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
 USA UTU-77339

**SUNDRY NOTICES AND REPORTS ON WELLS**

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
 GMBU

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
 FEDERAL 12-20-8-16

2. NAME OF OPERATOR:  
 NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
 4301333993

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER  
 435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
 GREATER MB UNIT

4. LOCATION OF WELL:  
 FOOTAGES AT SURFACE: 1876' FSL 656' FWL COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWSW, 20, T8S, R16E STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 04/21/2010	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was recompleted and then placed back on production. The following perforations were added in the Green River Formation:

- CPLime 6347-6351' 3 JSPF 12 holes
- CPLime 6316-6318' 3 JSPF 6 holes
- CPLime 6298-6300' 3 JSPF 6 holes
- CPLime 6262-6264' 3 JSPF 6 holes
- CPLime 6241-6243' 3 JSPF 6 holes
- CPLime 6223-6225' 3 JSPF 6 holes

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE  DATE 04/26/2010

(This space for State use only)

**RECEIVED**  
**APR 28 2010**  
 DIV. OF OIL, GAS & MINING

**Daily Activity Report**

Format For Sundry

**FEDERAL 12-20-8-16****2/1/2010 To 6/30/2010****4/14/2010 Day: 1****Recompletion**

NC #3 on 4/14/2010 - MIRUSU. TOH w/ rods. Release RBP & TIH w/ tbg to PBTD. - MIRUSU. Pump 60 bbls water down csg @ 250°. RD pumping unit. Flush tbg & rods w/ 30 bbls water @ 250°. Softseat & pressure test tbg to 3000 psi w/ 5 bbls water. Good test. Unseat rod pump. TOH w/ 100- 7/8 guided rods, 88- 3/4 plain rods, 20- 3/4 guided rods, 6- 1 1/2 wt bars, rod pump. Pump looked good. LD 9- 3/4 plain rods, 1- 3/4 guided rod due to wear. X- over to tbg eq. ND wellhead. Release TA. NU BOP. RU rig floor. PU TIH w/ 3- jts 2 7/8. No fill on top of RBP. Release RBP. TIH w/ 29- jts 2 7/8. Tag fill @ 6407'. (10' OF FILL). Clean out fill to PBTD @ 4617'. LD 2- jts 2 7/8. SDFD. - PU on tbg. Plg was dragging. RU rig pump & CWC. TOH w/ 203- jts 2 7/8, TA, 1- jt 2 7/8, SN, 1- jt 2 7/8, Ret head, & Plg. RU Perforators to run 4 3/4 guage ring to 6414', & perforate CPLIME- 6347'-51', 6316'-18', 6298'-6300', 6262'-64', 6241'-43', 6223'-25'. RD Perforators. X- over to 3 1/2 tbg eq. PU TIH w/ HD pkr, 135- jts 3 1/2 tbg. SDFD. - MIRUSU. Pump 60 bbls water down csg @ 250°. RD pumping unit. Flush tbg & rods w/ 30 bbls water @ 250°. Softseat & pressure test tbg to 3000 psi w/ 5 bbls water. Good test. Unseat rod pump. TOH w/ 100- 7/8 guided rods, 88- 3/4 plain rods, 20- 3/4 guided rods, 6- 1 1/2 wt bars, rod pump. Pump looked good. LD 9- 3/4 plain rods, 1- 3/4 guided rod due to wear. X- over to tbg eq. ND wellhead. Release TA. NU BOP. RU rig floor. PU TIH w/ 3- jts 2 7/8. No fill on top of RBP. Release RBP. TIH w/ 29- jts 2 7/8. Tag fill @ 6407'. (10' OF FILL). Clean out fill to PBTD @ 4617'. LD 2- jts 2 7/8. SDFD. - PU on tbg. Plg was dragging. RU rig pump & CWC. TOH w/ 203- jts 2 7/8, TA, 1- jt 2 7/8, SN, 1- jt 2 7/8, Ret head, & Plg. RU Perforators to run 4 3/4 guage ring to 6414', & perforate CPLIME- 6347'-51', 6316'-18', 6298'-6300', 6262'-64', 6241'-43', 6223'-25'. RD Perforators. X- over to 3 1/2 tbg eq. PU TIH w/ HD pkr, 135- jts 3 1/2 tbg. SDFD.

**Daily Cost:** \$0**Cumulative Cost:** \$9,545**4/15/2010 Day: 3****Recompletion**

NC #3 on 4/15/2010 - Cont PU TIH w/ 3 1/2 tbg. Pressure test tbg & pkr, break down CPLIME zone. - Cont PU TIH w/ 69- jts 3 1/2 tbg. Set pkr @ 6366'. Pressure test pkr & tbg to 4000 psi w/ 5 bbls water. Good test. Release pkr. TOH w/ 8- jts 3 1/2. Set pkr @ 6132'. RU hot oil truck to break down CPLIME zone. Perfs broke @ 3100 psi, & broke back to 2500 psi @ .5 bpm. RD hot oil truck. Release pkr. SDFD.

**Daily Cost:** \$0**Cumulative Cost:** \$34,158**4/16/2010 Day: 4****Recompletion**

NC #3 on 4/16/2010 - Frac, flowback, LD 3.5 tbg - RU frac tech. Set HD pkr w/ CE @ 6126' & EOT @ 6129'. Frac CP lime as detailed. Open for immediate flowback @ approx 3 BPM. Well flowed for 5 hours. Never fully died flowing @ approx 2bbls a min. Flowed back approx 360 bbls water. No trace of sand. Release HD packer. LD 26 jts 3.5" tbg. EOT @ 5303'. SDFD

**Daily Cost:** \$0**Cumulative Cost:** \$78,358**4/19/2010 Day: 5****Recompletion**

NC #3 on 4/19/2010 - LD 3.5 tbg, TIH w/ 2 7/8" tbg, swab - OUW 0psi on csg 100 psi on tbg. Pump 40 bbls water dwn csg @ 250°. Cont LD 170- jts 3.5" P110 work string. X-over to 2 7/8" equip. TIH w/ bar NC, SN, 208 jts 2 7/8" tbg. Tag fill @ 6352'. LD 2- jts 2 7/8" tbg. RU sandline to swab. Make 12 swab runs. Light trace of sand. Swab back approx 130 bbls water. Trace of oil. Final fluid @ 2000'. RD sandline. SDFD.

**Daily Cost:** \$0

**Cumulative Cost:** \$92,671

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**4/20/2010 Day: 6**

**Recompletion**

NC #3 on 4/20/2010 - Clean out to PBTD. Trop tbg & rods for production. - TIH w/ 2 7/8 tbg. Tag fill @ 6320'. (32' new fill). Clean out fill to PBTD @ 6417'. CWC. LD 3- jts 2 7/8. TOH w/ 204- jts 2 7/8, SN, NC. PU TIH w/ NC, 2- jts 2 7/8, SN, 2- jts 2 7/8, Arrowset Pkr, 200- jts 2 7/8. RD rig floor. ND BOP. Set Pkr w/ 16000 tension. NU wellhead. X- over to rod eq. PU TIH w/ 2 1/2 x 1 3/4 x 4 x 24 RTBC. Rod pump would not go through top jt. X- over to tbg eq. ND wellhead. Release Pkr. LD 3- jts 2 7/8 due to scale on inside. TIH w/ 3- jts 2 7/8. Set Pkr w/ 16000 tension. NU wellhead. X- over to rod eq. PU TIH w/ 2 1/2 x 1 3/4 x 4 x 24 RTBC, 6- 1 1/2 wt bars, 66- 3/4 guided rods. SDFD.

**Daily Cost:** \$0

**Cumulative Cost:** \$108,895

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**4/21/2010 Day: 7**

**Recompletion**

NC #3 on 4/21/2010 - Cont TIH w/ rods & PWOP. - Cont TIH w/ 98- 7/8 guided rods, 4' x 7/8 pony rod, 1 1/2 x 26' polish rod. RU pumping unit. Fill tbg w/ 5 bbls water. Stroke test rod pump to 800 psi. Good test. RDMOSU. POP @ 11:30 W/ 102" SL @ 5 SPM FINAL REPORT!!

**Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$112,727

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**Pertinent Files: Go to File List**

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-77339
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> FEDERAL 12-20-8-16
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013339930000
<b>3. ADDRESS OF OPERATOR:</b> 1001 17th Street, Suite 2000 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 382-4443 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1876 FSL 0656 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 20 Township: 08.0S Range: 16.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 4/25/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

Newfield Production Company requests the approval to open additional pay in the CPLimes sands of the subject well. Attached is the detailed procedure and please contact Paul Weddle at 303-383-4117 with any questions.

**Accepted by the Utah Division of Oil, Gas and Mining**

Date: April 08, 2010

By: *David K. DeWitt*

<b>NAME (PLEASE PRINT)</b> Sam Styles	<b>PHONE NUMBER</b> 303 893-0102	<b>TITLE</b> Engineering Tech
<b>SIGNATURE</b> N/A		<b>DATE</b> 4/7/2010

**Newfield Production Company**

**Federal 12-20-8-16**

**Procedure for:** OAP CPLimes down 3.5" tubing, Slickwater

**Well Status:** See attached Wellbore Diagram

**AFE #** [redacted] submitted to Tribe for approval.

**Engineer:** Paul Weddle [pweddle@newfield.com](mailto:pweddle@newfield.com)  
mobile 720-233-1280  
office 303-383-4117

**PROCEDURE**

- 1 Blow down tbg. MIRU SU. Seat pump and pressure test tubing to 3,000 psi. POH, LD, and visually inspect rods and pump. ND wellhead. Strip-on and NU BOP. GIH and tag fill. Clean out to PBTD as necessary. TOOH visually inspecting 2-7/8" production tbg. Report any scale on production string (interval, depth, type) on morning report and verbally to Engineer
- 2 RU wireline unit. Make 4-3/4" gauge ring run to +/- **6,425**  
RIH and perforate the following interval w/ 3SPF 120deg phasing:
 

<b>CPLIME 6347-6351</b>	3spf	120deg phasing
<b>CPLIME 6316-6318</b>	3spf	120deg phasing
<b>CPLIME 6298-6230</b>	3spf	120deg phasing
<b>CPLIME 6262-6264</b>	3spf	120deg phasing
<b>CPLIME 6241-6243</b>	3spf	120deg phasing
<b>CPLIME 6223-6225</b>	3spf	120deg phasing
- 3 Switch to 3.5" tubing handling equipment
- 4 PU tandem RBP/PKR and TIH on 3-1/2" **P110 8RD EUE 9.3# workstring.**
- 5 Set RBP @ +/- **no need** and test to 4,000psi. PUH with packer to +/- **6,150**
- 6 RU frac equip (3.5" tubing).Frac the **CPLIME** down tubing w/**10,000#** 100mesh and **60,000#** 30/50 sand at **35 BPM** with Slickwater treatment design as per attached tab, and BJ procedure. See notes.
- 7 Flowback well immediately @ 3-4 BPM until dead.
- 8 Release Packer and RBP.POOH laying down workstring and packer
- 9 Run tubing as pulled, RU swab equipment and swab well until returns are clean of sand. GIH tag fill and clean out as necessary.
- 10 CPLIMES need to be produced below a packer with PBGA. Set packer at ~6120' to isolate all previously existing sands: Place PBGA @ +/-6380, SN @ ± 6360 and set packer at ±6120' with 15,000 lbs overpull. ND BOP's. NU wellhead.
- 11 PU and RIH with a 2-1/2" x 1-3/4" x 20' **MACGUIVER pump**, 6 x 1-1/2" weight rods, 20x 3/4" guided rods, 88 x 3/4" slick rods, 100 x 7/8" guided rods, Space out with pony rods as necessary.
- 12 PWOP and track results for one month.

**Black Shale Slickwater Frac**

Stage	Prop Con	# Prop	Clean (gal)	
Acid	0.0	0	1000	
Technihib	0.0	0	750	
Pad-SW	0.0	0	5000	
100mesh	1.00	10000	10000	
Pad	0.00	0	6500	
30/50	0.75	5000	6667	8%
30/50	1.00	7500	7500	13%
30/50	1.25	12500	10000	21%
30/50	1.50	15000	10000	25%
30/50	1.75	12500	7143	21%
30/50	2.00	7500	3750	13%

total prop	70,000		
	Total Fluid	68,310	gal
	Total Fluid	1,626	bbbl

**NOTES:**

<b>* Include Claytreat @ 1gpt</b>
<b>*After breakdown, pump 20bbbl technihib @ ~2bbbl/min and shutdown to get a 1hr fall off</b>
<b>*After Final Shutdown, Record pressures for 15 minutes.</b>

# Federal 12-20-8-16

Spud Date: 11/3/08  
 Put on Production: 12/19/08  
 GL: 5540' KB: 5552'

## Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts ( 330.25'  
 DEPTH LANDED: 342.10' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx class 'g' cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 172 jts (6898.44'  
 DEPTH LANDED: 6458.45'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 320 sx premlite and 475 sx 50/50 poz  
 CEMENT TOP AT: 400'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 176 jts (5322.49')  
 TUBING ANCHOR: 5334.49' KB  
 NO. OF JOINTS: 1 jts (30.75')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5368.04' KB  
 NO. OF JOINTS: 1 jts (30.75')  
 TOTAL STRING LENGTH: EOT @ 5402.24'

### SUCKER RODS

POLISHED ROD: 1 1/2" x 26' polished rod  
 SUCKER RODS: 1-4", 7/8" pony subs, 100-7/8" scraped rods, 88-3/4" plain rods, 20-3/4" scraped rods, 6-1 1/2" x 25' wt bars  
 PUMP SIZE: 2 1/2" x 1 1/2" x 17' x 20' RHAC CDI rod pump  
 STROKE LENGTH: 102'  
 PUMP SPEED, SPM: 5

### FRAC JOB

**12/16/08 5120-5126' Frac CP2 sds as follows:**  
 59,921# 20/40 sand in 538 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1861 psi w/ ave rate of 22.3 BPM. ISIP 2136 psi. Actual flush: 5485 gals.

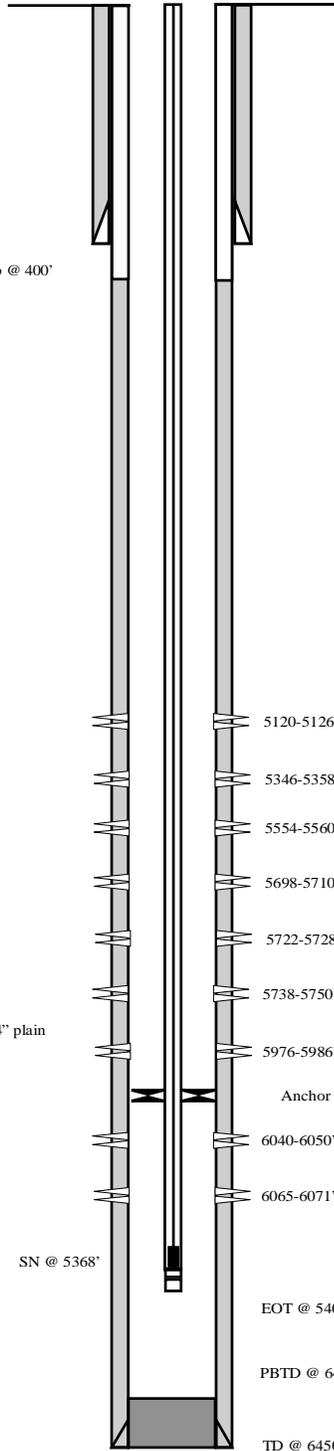
**12/16/08 5698-5750' Frac LODC sds as follows:**  
 80,230# 20/40 sand in 652 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1800 psi w/ ave rate of 22.4 BPM. ISIP 2184 psi. Actual flush: 5187 gals.

**12/16/08 5554-5560' Frac A1 sds as follows:**  
 26,664# 20/40 sand in 377 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1950 psi w/ ave rate of 22.2 BPM. ISIP 1991 psi. Actual flush: 5040 gals.

**12/16/08 5346-5358' Frac B1 sds as follows:**  
 21,026# 20/40 sand in 360 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1835 psi w/ ave rate of 22.5 BPM. ISIP 1701 psi. Actual flush: 5271 gals.

3/5/09

Water Isolation. Updated t & r details.



### PERFORATION RECORD

Date	Interval	Tool	Holes
12/16/08	5346-5358'	4 JSPF	48 holes
12/16/08	5554-5560'	4 JSPF	24 holes
12/16/08	5698-5710'	4 JSPF	48 holes
12/16/08	5722-5728'	4 JSPF	24 holes
12/16/08	5738-5750'	4 JSPF	48 holes
12/16/08	5976-5986'	4 JSPF	40 holes
12/16/08	6040-6050'	4 JSPF	40 holes
12/16/08	6065-6071'	4 JSPF	24 holes



## Federal 12-20-8-16

1876' FSL & 656' FWL  
 NW/SW Section 20-T8S-R16E  
 Duchesne Co, Utah

API # 43-013-33993 ; Lease # UTU-77339

DF 5/5/09